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UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Agricultural Economics

In cooperation with

NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS

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APPLE MANUFACTURES

THE USE OF APPLES IN CIDER MILLS

EVAPORATORS AND CANNERIES IN NEW YORK STATE

1937-49

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APPLE MANUFACTURES, 1937-49

This report presents statistics on the apple-manufacturing industry in New York State for each crop year starting with 1937.

Apple production has varied widely in New York from year to year. Estimates of production and value of sales in the commercial counties of the State have been as follows:

<u>Apples: Production and value of sales in commercial counties, New York, 1937-49</u>					
<u>Year</u>	<u>: Production</u>	<u>: Value of sales</u>	<u>Year</u>	<u>: Production</u>	<u>: Value of sales</u>
	<u>(1000 bu.)</u>	<u>(1000 dollars)</u>		<u>(1000 bu.)</u>	<u>(1000 dollars)</u>
1937	19,439	10,395	:	1944	15,795
1938	13,954	10,707	:	1945	2,160
1939	24,011	10,871	:	1946	15,116
1940	12,865	9,528	:	1947	15,045
1941	16,302	14,666	:	1948	11,750
1942	18,200	20,288	:	1949	20,090
1943	12,750	29,335	:		

During the period covered by the apple manufactures statistics, the number of establishments has decreased. Less than 300 plants have operated in each of the last five crop seasons whereas ten years earlier over 500 were operating. Many small plants, especially cider mills and evaporators established when apple orchards were widespread throughout the State, have gone out of use permanently because of fire, conversion to other uses, abandonment or the disappearance of orchards in many areas. There appears to be a trend toward a smaller number of plants, having better equipment and making a wider variety of products than in the past.

A total of nearly 9 million bushels of apples were received by New York State processing plants from the 1949 crop, slightly more than the previous record quantity from the 1946 crop. Nearly half of the 1949 crop apples used by these manufacturers were for canned apples and applesauce, about two-fifths for cider and apple juice with less than a tenth of the total receipts being used for other products such as dried apples, frozen apples, apple butter, etc. Statistics for the relatively new industry of daily preparation and shipment of apples to pie bakers are not included here except incidentally as it is carried on in or near areas of production. It has reached its highest development in New York City, using open market or contract purchases of apples the year round.

In addition to the wide variety of recognized food products, pomace from cider mills and skins and cores from canning factories yield substantial amounts of dried residue used for the extraction of pectin.

The apple manufacture information in this publication was gathered from processors mainly by mailed questionnaires supplemented in a few cases by personal visitation by representatives of the Department of Agriculture and Markets, and with estimates for a few small concerns from whom reports were not received.

Cordial appreciation is expressed for the splendid cooperation of the people in the apple processing industries.

This publication was prepared under the direct supervision of Wm. I. Bair.

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Director of Agricultural Statistics.

Table 1.- Receipts and utilization of apples at manufacturing plants, New York, crops of 1937-49

Crop year	Net receipts 1/	Receipts from other states (included in preceding column)	Used for cider and apple juice	Used for canning or applesauce
			bushels	
1937	7,592,200	10,600	4,555,000	1,657,700
1938	3,861,900	10,500	2,639,100	790,100
1939	8,361,900	7,400	5,101,500	1,987,800
1940	4,195,000	10,500	2,573,700	1,351,500
1941	7,328,300	17,500	3,993,600	2,580,600
1942	7,907,500	62,000	3,712,500	2,751,700
1943	5,611,300	98,400	3,037,900	1,865,400
1944	7,607,800	479,400	4,278,800	2,010,200
1945	1,418,000	806,500	873,000	440,800
1946	8,723,800	495,100	4,364,400	3,595,500
1947	6,214,000	99,100	2,920,000	2,839,800
1948	4,552,000	173,600	1,788,300	2,271,000
1949	8,873,400	24,300	3,802,200	4,289,500

Continued

Table 1.- Receipts and utilization of apples at manufacturing plants, New York, crops of 1937-49 - continued

Crop	Used for	Used for	Used for other
year	drying	freezing 2/	products 2/ 3/
		<u>bushels</u>	
1937	1,284,800		94,700
1938	373,900		58,800
1939	1,207,100		65,500
1940	199,400		70,400
1941	536,700		217,400
1942	1,120,800	39,300	283,200
1943	502,400	113,800	91,800
1944	441,100	577,400	300,300
1945	-	76,800	27,400
1946	114,900	459,400	189,600
1947	108,800	191,500	153,900
1948	39,600	169,600	283,500
1949	221,700	347,500	212,500

1/ Apples received at a plant and then transferred to another plant for processing are included only in plant where processed. One bushel is assumed to equal 48 pounds.

2/ Frozen apples were first asked separately in 1944. The 1943 and 1942 totals for this item as published may be incomplete. For 1941 and earlier years quantities used for frozen apples were not separated from "other products."

3/ Among other products for which these apples were used are jelly, apple butter, mincemeat, fresh sliced apples for pies in upstate areas and in 1941 and earlier years frozen apples. Included also are small amounts of loss and shrinkage and some apples sorted out for sale as fresh fruit.

Table 2.- Cider and dried apple products made, New York, from crops of 1937-49

Crop year	Cider and Juice pressed 1/	Dried apples	Dried apple chops	Dried skins and cores	Dried pomace 2/
	Gallons		Pounds		
1937	19,171,800	7,101,200	727,000	not available	2,426,300
1938	10,840,800	2,147,700	192,300	in	104,000
1939	21,835,600	7,076,700	461,700	1937 - 40	612,000
1940	10,659,000	869,000	469,400		454,200
1941	17,863,400	3,056,700	284,500	595,300	823,900
1942	17,235,500	6,473,500	356,700	1,461,100	2,126,000
1943	14,188,100	2,736,200	233,400	649,800	758,000
1944	19,725,300	2,489,700	194,000	536,100	1,168,000
1945	3,565,900	-	-	-	67,000
1946	19,103,000	721,100	67,000	151,000	1,570,000
1947	13,230,400	648,600	-	-	720,500
1948	7,714,200	265,500	-	-	3,044,200
1949	19,687,700	1,341,300	58,800	-	5,630,000

1/ Quantities disposed of as apple juice were: 1940 - 3,360,300 gallons; 1941 - 3,620,800; 1942 - 3,685,000; 1943 - 3,456,100; 1944 - 6,262,600; 1945 - 1,840,600; 1946 - 7,611,200; 1947 - 3,657,100; 1948 - 2,607,100; 1949 - 7,699,700. Separate data on "apple juice" were not secured prior to 1940.

2/ Years 1937-40 include dried skins and cores, as separate data were first asked in 1941.

Table 3.- Average price paid for apples, by type of manufacturing plant, New York 1937-49 1/

Crop year	Cider mills	Average price paid for apples by		
		Evaporators	Canneries	All plants
		Dollars per 100 pounds		
1937	.22	.33	.43	.29
1938	.26	.28	.58	.34
1939	.18	.27	.43	.26
1940	.28	.29	.75	.47
1941	.34	.57	1.19	.72
1942	.44	1.46	1.59	1.05
1943	1.13	2.86	3.12	2.12
1944	1.04	2.96	3.21	2.06
1945	2.77	-	6.69	4.40
1946	1.21	1.88	3.91	2.57
1947	.67	.89	2.58	1.72
1948	1.09	1.22	2.87	2.16
1949	.51	.77	1.85	1.25

1/ These prices are the average of "average or prevailing prices" as reported, and weighted by the importance of the various districts.

Table 4.- Receipts and utilization of apples by type of manufacturing plants, New York, crops of 1948 and 1949

Item	Cider Mills		Other processors		All plants	
	1948	1949	1948	1949	1948	1949
	:	:	:	:	:	:
<u>Bushels</u>						
Receipts:						
Net <u>1/</u>	988,800	1,978,400	3,563,200	6,895,000	4,552,000	8,873,400
From other states (included above)	3,400	5,900	170,200	18,400	173,600	24,300
Utilized for						
Cider and juice	988,800	1,978,400	799,500	1,823,800	1,788,300	3,802,200
Canning and apple sauce	-	-	2,271,000	4,289,500	2,271,000	4,289,500
Drying	-	-	39,600	221,700	39,600	221,700
Freezing	-	-	169,600	347,500	169,600	347,500
Other products	-	-	283,500	212,500	283,500	212,500

1/ Apples received at a plant and then transferred to another plant for processing are included only in plant where processed.

Table 5.- Apples received and cider and juice made by districts and type of plant, New York, crops of 1948 and 1949

District 1/ and year	Apples received at		Cider and juice made at	
	: Cider mill	: Other processors:	: Cider mill	: Other processors:
	<u>bushels</u>		<u>gallons</u>	
		Total		Total
Ontario				
1948	270,100	3,045,600	1,181,200	3,904,400
1949	469,900	6,227,300	2,344,700	11,328,300
				5,085,600
				13,673,000
Mid-western				
1948	44,500	93,900	204,000	-
1949	157,100	234,700	741,000	-
				204,000
				741,000
Hudson				
1948	263,200	100,000	763,400	-
1949	500,000	86,500	1,932,900	-
				763,400
				1,932,900
Champlain				
1948	5,300	-	23,400	-
1949	10,000	-	32,200	-
				23,400
				32,200
Other				
1948	405,700	323,700	1,637,800	-
1949	841,400	346,500	3,304,800	3,800
				1,637,800
				3,308,600
State				
1948	988,800	3,563,200	3,809,800	3,904,400
1949	1,978,400	6,895,000	8,355,600	11,332,100
				7,714,200
				19,687,700
1/ Districts as used in this publication include counties as listed below:				
Ontario District -Niagara, Orleans, Monroe, Wayne.				
Mid-western District -Erie, Genesee, Wyoming, Livingston, Ontario, Yates, Seneca, Tompkins.				
Hudson District -Columbia, Dutchess, Putnam, Westchester, Greene, Ulster, Orange, Rockland.				
Champlain District -Clinton, Essex.				
Other districts -All counties not included above.				

Table 6.- Apple manufacturing establishments in operation and establishments making specified products, New York, crops of 1937-49

Crop year	Establishments in operation	Cider and juice	Establishments making Dried apple products	Other apple products
			1/ 2/	
			<u>Number</u>	
1937	640	578	47	26
1938	500	454	29	22
1939	573	507	45	25
1940	427	392	19	24
1941	461	418	26	25
1942	374	318	42	25
1943	283	243	33	25
1944	300	250	30	32
1945	63	56	2	10
1946	261	221	13	35
1947	293	244	15	39
1948	249	212	12	34
1949	284	243	18	36

1/ A total of the establishments making cider and juice, dried apple products or other apple products exceeded the number of establishments in operation, as an establishment may make more than one of the listed products. "Custom" and "Commercial" cider mills are included in number of establishments.

2/ Other apple products include canned apples or applesauce, frozen apples, apple butter, mincemeat, fresh sliced apples for pies in upstate areas, etc.

Table 7.- Apples received from other states at New York processing plants, crops of 1947-49

	: 1947	: 1948	: 1949
	<u>Bushels</u>		
<u>By states of origin</u> 1/			
New England States	4,000	2,400	11,000
New Jersey, Pennsylvania	14,800	13,000	13,300
Ohio, Indiana, Illinois, Michigan	80,300	2,100	-
Delaware, Maryland, Virginia, West Virginia	-	77,000	-
Other States	-	-	-
Canada	-	79,100	-
<u>Total</u>	<u>99,100</u>	<u>173,600</u>	<u>24,300</u>
<u>By district in New York in which received</u> 2/			
Ontario	69,900	114,900	8,300
Mid-western	1,200	1,700	-
Hudson, Champlain and other	28,000	57,000	16,000
<u>Total</u>	<u>99,100</u>	<u>173,600</u>	<u>24,300</u>

1/ States grouped to prevent disclosure of individual operations. In a few cases receipts of apples from more than one state were grouped and the proportion to be credited to a given state was necessarily estimated.

2/ For counties included in each district see footnote 1, table 5, page 5.

Table 8.- Estimates of commercial apple production by varieties, New York
1944-49 1/

Varieties	: 1944	: 1945	: 1946	: 1947	: 1948	: 1949
Thousand bushels						
<u>Summer Varieties</u>						
Other summer	632	151	907	451	352	402
<u>Fall Varieties</u>						
Wealthy	632	194	1,058	602	822	800
Other fall	632	43	605	451	352	350
<u>Winter Varieties</u>						
Baldwin	1,737	367	1,058	2,106	588	2,100
Ben Davis	948	65	756	752	352	804
Cortland	1,106	130	1,360	1,354	1,410	2,100
Delicious	632	86	605	602	588	804
McIntosh	4,896	605	3,930	4,063	3,879	6,227
Northern Spy	790	151	756	903	352	804
R. I. Greenings	1,895	130	1,965	2,106	1,528	3,289
Rome Beauty	474	108	1,058	602	705	1,205
Other winter	1,421	130	1,058	1,053	822	1,205
Total						
all varieties	15,795	2,160	15,116	15,045	11,750	20,090

1/ Estimates of the commercial apple crop refer to the production of apples in the commercial areas, counties included in the respective commercial areas are given below:

<u>Area</u>	<u>Counties included</u>
Ontario	- Niagara, Orleans, Monroe, Wayne
Mid-western	- Erie, Genesee, Wyoming, Livingston, Ontario, Yates, Seneca, Tompkins.
Hudson	- Columbia, Dutchess, Putnam, Westchester, Greene, Ulster, Orange, Rockland.
Champlain	- Clinton, Essex
Central & Eastern	- Oswego, Cayuga, Onondaga, Saratoga, Schoharie, Albany, Rensselaer.

